

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- (X) original
() design
() supplemental
() national stage of PCT

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"High Performance Powdered Metal Mixtures For Shaped Charge Liners"

the specification of which: (check one)

- () is attached hereto.
(X) was filed on February 7, 2000, as Application Serial No. 09/499,174, and was amended on -- (if applicable)
() was described and claimed in PCT International Application No. -- filed on -- and as amended under PCT Article 19 on -- (if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information known to be material to the patentability of any claim in accordance with Title 37, Code of Federal Regulations, §1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

LABEL UNDER MPEP §201.06(c)

PRIOR FOREIGN APPLICATION(S)

<u>Number Claimed</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>	<u>Priority</u>
		- NONE -	() Yes () No () Yes () No

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Number Claimed Month/Day/Year Filed

This declaration is of the following type: (if applicable)

- () divisional
() continuation
() continuation-in-part(CIP)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
		<u>Patented/Pending/Abandoned</u>

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. WILLIAM E. SHULL, Reg. No. 29,438; WILLIAM M. IMWALLE, Reg. No. 35,904; ROBERT A. KENT, Reg. No. 28,626; PAUL I. HERMAN, Reg. No. 37,349; WILLIAM R. PEOPLES, Reg. No. 25,906, CRAIG W. RODDY, Reg. No. 36,256 and EUGENE R. MONTALVO, Reg. No. 32,790 of HALLIBURTON ENERGY SERVICES, INC., P. O. Box 819052, Dallas, Texas 75381-9052 and STEVEN W. SMITH, Reg. No. 36,684; SHREEN K. DANAMRAJ, Reg. No. 41,696 and LAWRENCE R. YOUST, Reg. No. 38,795 of SMITH & DANAMRAJ, 12900 Preston Road, Suite 1200, LB 15, Dallas, Texas 75230-1328.

SEND CORRESPONDENCE TO:

LAWRENCE R. YOUST
Smith & Danamraj
12900 Preston Road, Suite 1200, LB 15
Dallas, Texas 75230-1328

DIRECT TELEPHONE CALLS TO:

LAWRENCE R. YOUST
(972) 720-1202

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	David J. Leidel		Date
	Full Name	Inventor's Signature	
	6602 Cliffwood Court Arlington, Texas 76016 Residence		U.S.A. Citizenship
2	6602 Cliffwood Court Arlington, Texas 76016 Post Office Box		
	James Phillip Lawson	<i>James Phillip Lawson</i>	JUNE 29, 2000
	Full Name	Inventor's Signature	Date
	807 Xavier Mansfield, Texas 76063 Residence		U.S.A. Citizenship
	807 Xavier Mansfield, Texas 76063 Post Office Box		

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LABEL UNDER MPEP §201.06(c)

This copy of the Declaration and Power of
- 1 - Attorney is for the attached application submitted
herewith.

PRIOR FOREIGN APPLICATION(S)

<u>Number Claimed</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>	<u>Priority</u>
		- NONE -	() Yes () No () Yes () No

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1	David J. Leidel	 Inventor's Signature	6-8-2000 Date
	6602 Cliffwood Court Arlington, Texas 76016 Residence	U.S.A. Citizenship	
	6602 Cliffwood Court Arlington, Texas 76016 Post Office Box		
2	James Phillip Lawson	Inventor's Signature	Date
	807 Xavier Mansfield, Texas 76063 Residence	U.S.A. Citizenship	
	807 Xavier Mansfield, Texas 76063 Post Office Box		

PATENT
990084 U1 USA

ASSIGNMENT

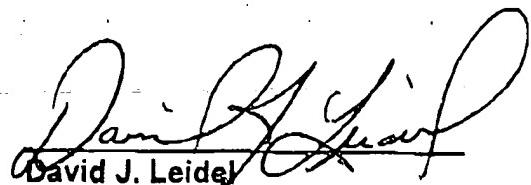
IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to me by HALLIBURTON ENERGY SERVICES, INC., and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, DAVID J. LEIDEL and JAMES PHILLIP LAWSON, having made an invention in an "HIGH PERFORMANCE POWDERED METAL MIXTURES FOR SHAPED CHARGE LINERS" while in the employ of HALLIBURTON ENERGY SERVICES, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 2601 Beltline Road, Carrollton, Texas, 75006, (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in a "HIGH PERFORMANCE POWDERED METAL MIXTURES FOR SHAPED CHARGE LINERS";
2. United States of America patent application on said invention, Attorney File No. 990084 U1 USA, U.S. Serial No. 09/499,174, filed February 7, 2000 executed by us, entitled "HIGH PERFORMANCE POWDERED METAL MIXTURES FOR SHAPED CHARGE LINERS";
3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, whether in the United States of America or any other place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;
6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

7. The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

8. All international rights of priority associated with said invention, applications, patents and like protection; and we covenant that we, our heirs, legal representatives, assigns, administrators, and executors will at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at Johnson County, Texas, on the 8th day
of June, 2000.

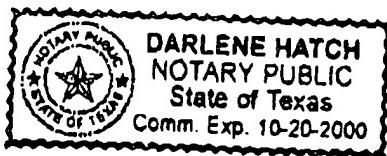

David J. Leidel

STATE OF Texas §
COUNTY OF Johnson §

BEFORE ME, the undersigned authority, on this day personally appeared David J. Leidel known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 8th
day of June, 2000.

[SEAL]



Darlene Hatch
Notary Public

My Commission Expires:



EXECUTED at TARRANT County, Texas, on the 29th day
of June, 2000.

James Phillip Lawson
James Phillip Lawson

STATE OF TEXAS \$
COUNTY OF TARRANT \$

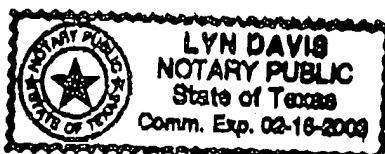
BEFORE ME, the undersigned authority, on this day personally appeared James Phillip Lawson known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 29th
day of JUNE, 2000.

Lyn Davis
Notary Public

[SEAL]

My Commission Expires: 2/16/03





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 03, 2000

PTAS

HALLIBURTON ENERGY SERVICES, INC.
WILLIAM M. IMWALLE
P.O. BOX 819052, MAIL CODE 1-B-121
LEGAL, INTELLECTUAL PROPERTY DEPARTMENT
DALLAS, TX 75381



101437284A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/17/2000

REEL/FRAME: 010999/0743
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
LEIDEL, DAVID J.

DOC DATE: 06/29/2000

ASSIGNOR:
LAWSON, JAMES PHILLIP

DOC DATE: 06/29/2000

ASSIGNEE:
HALLIBURTON ENERGY SERVICES, INC.
P.O. BOX 819052
LEGAL, INTELLECTUAL PROPERTY
DEPARTMENT
DALLAS, TEXAS 75381

SERIAL NUMBER: 09499174
PATENT NUMBER:

FILING DATE: 02/07/2000
ISSUE DATE:

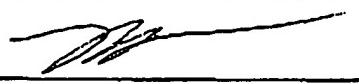
LABEL UNDER MPEP §201.06(c)

This copy of the Notice of Recordation of Assignment Document and Assignment are for the attached application submitted herewith.

01C999/0743 PAGE 2

PAULA MCCRAY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

P E S C

<p>FORM PTO-1395 1-31-92 2000 JUL 17 2000</p> <p>PATENT & TRADEMARK OFFICE</p>	<p>CORDATIC PAT</p> <p>the Honorable Commissioner of Patents and Trade</p>	<p>08-19-2000 101437284</p>
<p>1. Name of conveying party(ies): <u>7/17/00</u></p> <p>David J. Leidel James Phillip Lawson</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>Halliburton Energy Services, Inc.</u> Internal Address: <u>Legal, Intellectual Property Department</u> Street Address: <u>P.O. Box 819052</u> City: <u>Dallas</u> State: <u>Texas</u> ZIP: <u>75381</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>June 29, 2000</u></p>		
<p>4. Application number(s) or patent number(s): <u>09/499,174</u> If this document is being filed together with a new application, the execution date of the application is: _____</p>		
<p>A. Patent Application No.(s) <u>09/499,174</u></p>		<p>B. Patent No.(s)</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>William M. Imwalle</u> Internal Address: <u>Legal, Intellectual Property Department</u> <u>Halliburton Energy Services, Inc.</u> <u>Mail Code 1-B-121</u></p>		<p>6. Number of applications and patents involved: <u>1</u></p>
<p>Street Address: <u>P.O. Box 819052</u> City: <u>Dallas</u> State: <u>Texas</u> ZIP: <u>75381</u></p>		<p>7. Total fee (37 CFR 3.41) <u>\$ 60.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p>
<p>8. Deposit account number: <u>08-0300</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>		
<p>DO NOT USE THIS SPACE</p>		
<p>9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i></p>		
<p><u>PAUL J. HERMAN</u> Name of Person Signing</p>		 Signature
<p>08/17/2000 DNGUYEN 00000255 000300 09499174 01 FEE 301 40.00 CH</p>		<u>7/17/00</u> Date
<p>Total number of pages including cover sheet, attachments, and document: <u>4</u></p>		